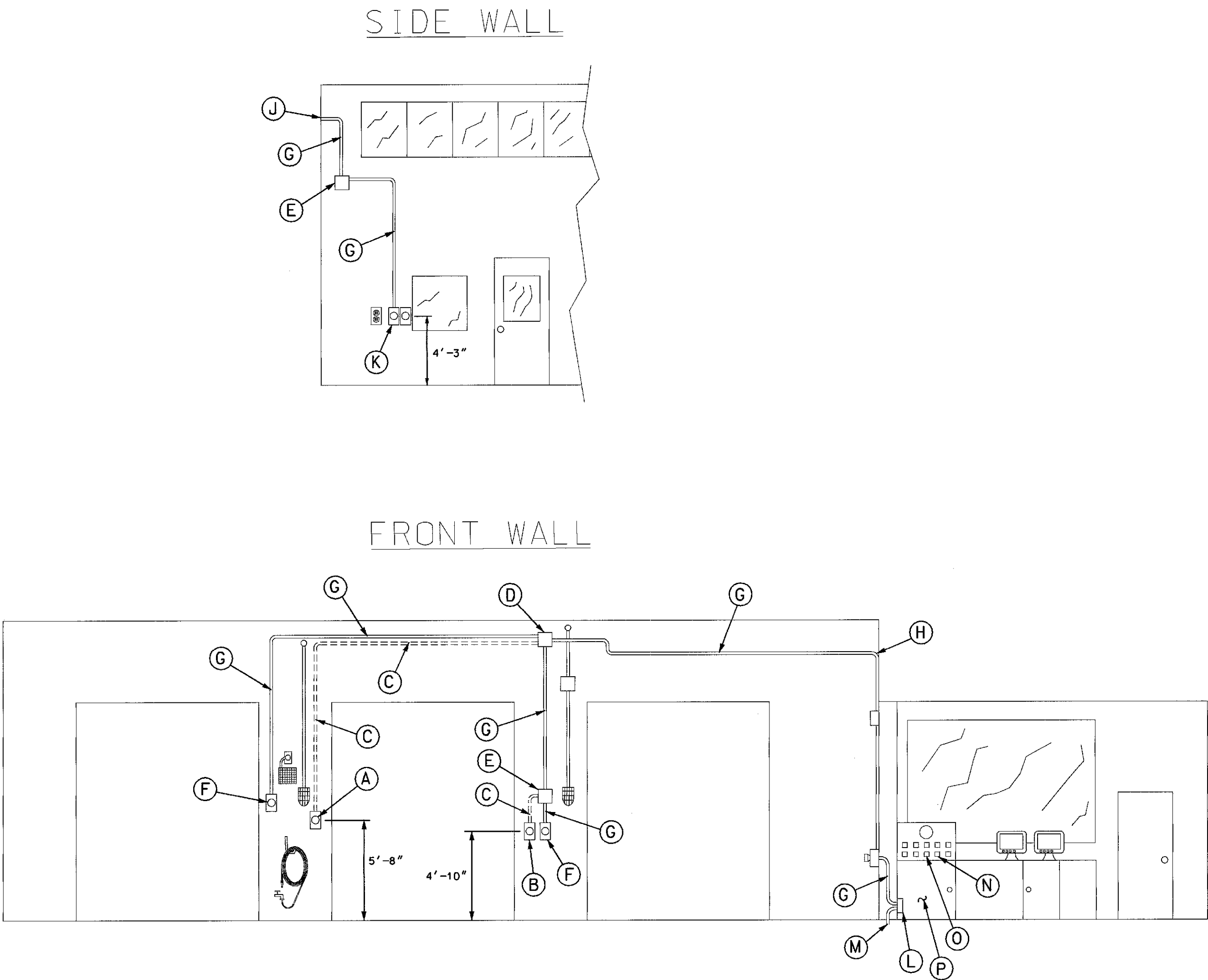


CONSTRUCTION DETAILS

- A. Install pushbutton as shown and label for 'Eastbound MD 193'.
B. Install pushbutton as shown and label for 'Westbound MD 193'.
C. Install 1/2" EMT conduit onto face of wall and tie into existing 4"x 4" electrical box as shown.
D. Use existing 4"x 4" electrical box. Disconnect existing splice, install proposed 2-conductor cable and resplice to assure that the pushbuttons on the left control WB MD 193 and the ones on the right control EB MD 193.
E. Use existing 4"x 4" electrical box.
F. Use existing pushbutton.
G. Use existing conduit.
H. See 'SIDE WALL' detail on this sheet.
J. See 'FRONT WALL' detail on this sheet.
K. Remove existing 'toggle switch' and box and replace with side by side pushbuttons. Label each, 'Westbound MD 193' on the left and 'Eastbound MD 193' on the right.
L. Splice proposed 2-conductor cables into spare conductors in existing 5-conductor cable in existing box.
M. Existing conduit that runs from electrical box under control console in Control Room underground to the existing cabinet and controller.
N. Existing Traffic Signal pre-emption pushbutton in console. Label 'Eastbound MD 193'.
O. Utilize spare pushbutton in console. Label 'Westbound MD 193' and wire into spare conductors in existing 5-conductor cable under console.
P. Cabinet within Firehouse Control Room that houses pushbutton console and electrical splice box for signal pre-emption cables.

PUSHBUTTON AND CONDUIT PLACEMENT DETAIL



PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of additional firehouse pre-emption for the Silver Spring Fire Station No. 16 on MD 193 in Montgomery County. The Station is currently wired for pre-emption the signal at MD 193 @ Williamsburg Drive / Fire Station driveway. The proposed pre-emption (Pre-emption II) will be installed in addition to the existing pre-emption (Pre-emption I).

Pre-emption II, when activated, will control the existing traffic signal at the Firehouse driveway / Williamsburg Drive and the signals along MD 193 west to Lexington Drive and to MD 193 (westbound) and US 29 and MD 193 (eastbound) and US 29.

MD 193 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. MD 193 @ Williamsburg Drive / Montgomery - Blair High School Sports Fields Driveway / Fire Station Driveway

This intersection currently runs in a NEMA six-phase, semi-actuated mode. The existing pre-emption shall remain and shall be used for emergency responses along eastbound MD 193. An additional pre-emption phase shall be added to be activated for emergency responses along westbound MD 193.

The existing NEMA size "6" base-mounted cabinet shall be utilized.

2. MD 193 @ Lexington Drive / Eastbound MD 193 Spur

This intersection currently runs in a NEMA five-phase semi-actuated mode. A pre-emption phase shall be added for the westbound MD 193 movement.

The existing NEMA size "6" base-mounted cabinet shall be utilized.

3. MD 193 (westbound) and US 29

This intersection currently runs in a NEMA four-phase semi-actuated mode. A pre-emption phase shall be added for the westbound MD 193 movement, allowing emergency vehicles to continue west along MD 193 or to turn south on US 29.

The existing NEMA size "6" base-mounted cabinet shall be utilized.

4. MD 193 eastbound and US 29

This intersection currently runs in a NEMA four-phase, semi-actuated mode. A pre-emption phase shall be added on southbound US 29.

The existing NEMA size "6" base-mounted cabinet shall be utilized.

III. SPECIAL NOTES

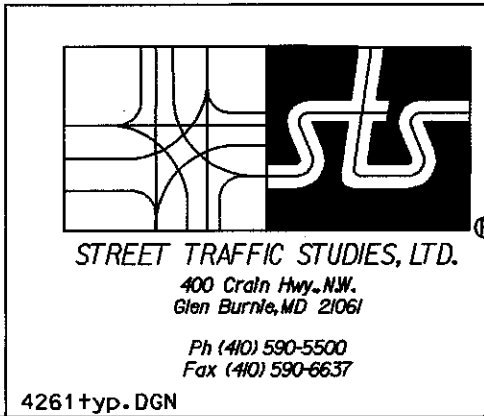
1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
2. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. Contact Mr. Bob Gonzales at (240) 777-8761 seventy-two hours in advance of intended work.
3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of Traffic	1 EA
8032	F&I 3" Sched. 80 Rigid PVC Conduit - Slotted	70 LF
8056	F&I Electrical Cable 2 - Conductor No. 14 AWG	150 LF
Neg.	Installation of conduit, electrical boxes and splicing of cables within firehouse.	lump sum
Neg.	F&I pushbutton within firehouse and label all pushbuttons	4 EA
Neg.	F&I Electrical Cable 7-Conductor No. 10 AWG	2810 LF

GENERAL INFORMATION SHEET



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION
MD 193: WILLIAMSBURG DR TO US 29
SILVER SPRING FIRE STATION NO. 16

DRAWN BY: W J NIES	F.A.P. NO.	TS NO.	SHEET NO. 8 OF 8
CHECKED BY: RRZ	S.H.A. NO. M 425 502 370	3534 B	
SCALE: NONE	COUNTY: MONTGOMERY	T.J.M.S. NO. F405	
DATE: 3-23-03	LOG MILE: 15019304.71		